UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

Ref. Case No. 17700

Site Name Gulton Ind.

Date: 3/25/92

Subject: **CLP Data Review**

From: Michael L. Daggett, Chief, Organic Lab Section, 6E-HL

M.L. Ritter for

To: L. Ross, 6H-MA

A review of the laboratory raw data for the reference site has been completed by members of the Laboratory Section. Samples were:

INORGANIC:	MFQ311	MFQ326		
	312			
	313			
	314	↓		
	324	MFQ340		
ORGANIC:				

The data was found:

( ) Acceptable

(X) Provisional; use of data requires caution. Problems are noted in Review Summary.

( ) Unacceptable; data should not be used. Problems are noted in Review Summary.

Questions regarding the review can be addressed to me.

Attachments

cc: Mahmoud El-Feky, 6E-HL
Mike Hiatt, EMSL/Las Vegas

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

MEMORANDUM

Date: 3-25-1992

Subject: CLP Data Review

From: Mahmoud El-Feky, 6E-HO, Region 6

To: Michael Daggett, Chief, Organic Section, Houston Branch, Region 6

Attached is the data review summary for Case # 17700
SDG # MFQ311
Site GULTON INDUSTRIES

Data was found: ( ) Acceptable

(X) Provisional

( ) Unacceptable

Action required by TPO: ( ) Yes

(X) No

COMMENTS:

MANTECH ENVIRONMENTAL TECHNOLOGY, INC.
ESAT REGION VI
c/o U.S. ENVIRONMENTAL PROTECTION AGENCY
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

MEMORANDUM

DATE: March 24, 1992

TO: Mahmoud E. El-Feky, Chemist, 6E-HO, Region VI

THRU: Bill Blanton, ETM, ESAT, Region VI

FROM: Michael J. Fertitta, ESAT, Region VI MJF

SUBJECT: CLP Data Review

Attached is the data review summary for Case # 17700
SDG # MFQ311
Site Gulton Industries

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 17700
LABORATORY NFT (CO)
CONTRACT # 68-D0-0145
SDG # MFQ311
SOW# ILM01.0
TPO: ACTION ____ FYI X

SITE Gulton Industries
NO. OF SAMPLES/
MATRIX 20/soil
REVIEWER (IF NOT ESD) ESAT
REVIEWER'S NAME Mike Fertitta
COMPLETION DATE March 24, 1992
ACCT # 2TGBDN77 SF # TGBUZZ

SAMPLE NOs.: MFQ311, MFQ312, MFQ313, MFQ314, MFQ324, MFQ326, MFQ327, MFQ328, MFQ329, MFQ330, MFQ331, MFQ332, MFQ333, MFQ334, MFQ335, MFQ336, MFQ337, MFQ338, MFQ339, MFQ340

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CYANIDE
1. HOLDING TIMES	O	O	O	O
2. CALIBRATIONS	O	O	O	O
3. BLANKS	X	X	O	O
4. ICS	O			
5. LCS	O	O		
6. DUPLICATE ANALYSIS	X	O	O	O
7. MATRIX SPIKE	X	O	O	O
8. MSA		N/A		
9. SERIAL DILUTION	O			
10. SAMPLE VERIFICATION	O	X	O	O
11. OTHER QC	N/A	N/A	N/A	N/A
12. OVERALL ASSESSMENT	X	X	O	O

O = Data had no problems/or qualified due to minor problems.
M = Data qualified due to major problems.
Z = Data unacceptable.
X = Problems, but do not affect data.
N/A= Not applicable

ACTION ITEMS: Blank concentrations were above the instrument detection limits; differences between duplicate results exceeded quality control limits; matrix spike recoveries were outside of limits, and FAA analytical spike recoveries exceeded limits for 6 of 80 determinations.

AREAS OF CONCERN:

NOTABLE PERFORMANCE: Mercury and cyanide met quality control criteria. Serial dilution results met technical quality control criteria.

INORGANIC QA REVIEW
CONTINUATION PAGE

Case 17700 SDG MF0311 Site Gulton Industries Lab NFT (CO)

COMMENTS: Twenty soil samples were analyzed at low concentrations for total metals and cyanide. The data package is provisional because: blank concentrations were above the instrument detection limits; differences between duplicate results exceeded quality control limits; matrix spike recoveries were outside of limits, and FAA analytical spike recoveries exceeded limits for 6 of 80 determinations.

1. Holding Times

All holding time criteria were met.

2. Calibrations

All calibrations were acceptable.

3. Blanks

A. Calibration Blanks

1. The concentrations of aluminum, barium, nickel, and selenium in the calibration blanks were above the instrument detection limits (IDL) but less than the contract required detection limits (CRDL). Sample results greater than the IDLs but less than five times the amount in any blank should be qualified as undetected.

2. The concentrations of calcium and magnesium in the calibration blanks were above the negative IDLs.

3. The concentrations of lead, copper, and iron in the calibration blanks were above both the positive and the negative IDLs.

B. Preparation Blank

1. The concentration of aluminum in the preparation blank was above the instrument detection limit (IDL) but less than the contract required detection limit (CRDL). Sample results greater than the IDL but less than five times the amount in any blank should be qualified as undetected.

2. The concentrations of calcium, copper, iron, magnesium, and vanadium in the preparation blank were above the negative IDLs.

C. All other blank results were acceptable.

4. **ICS**

Interference check sample criteria were met.

5. **LCS**

All laboratory control sample results were acceptable.

6. **Duplicate Analysis**

A. The calcium and zinc results are qualified as estimated (J) due to relative percent differences of 48.4% and 53.7%. respectively.

B. All other duplicate results met technical quality control criteria.

7. **Matrix Spike**

A. Pre-digestion/Pre-distillation Matrix Spike Recovery

The antimony and cadmium results are qualified as estimated (J and UJ) due to pre-digestion matrix spike recoveries of 44.0% and 71.7%, respectively. Matrix interference is suspected.

B. Furnace Atomic Absorption Quality Control

1. The selenium results for MFQ311, MFQ327, MFQ333, MFQ337, and MFQ338 are qualified as estimated (J and UJ) due to FAA analytical spike recoveries of 68.0%, 74.0%, 120.0%, 118.0%, and 122.0%, respectively. Matrix interference is suspected.

2. The thallium result for MFQ332 is qualified as estimated (J) due to an 84.0% FAA analytical spike recovery. Matrix interference is suspected.

C. All other analytes had acceptable pre-digestion/pre-distillation matrix spike recoveries and FAA quality control.

8. **MSA**

The method of standard addition was not required.

9. **Serial Dilutions**

All serial dilution results met quality control criteria.

10. **Sample Verification**

A. The ICV and ICB for the first arsenic run are mislabelled as a CCV and a CCB in the raw data (pages 149 and 150).

B. The arsenic results for MFQ312 and MFQ314 (raw data pages 155 and 175) are below the IDL. The FAA analytical spike recoveries should be 112.0% and 107.0%, respectively.

C. The selenium results for MFQ334 and MFQ339 (raw data pages 262 and 266) are above the IDL. The FAA analytical spike recoveries should be 99.0% and 101.0%, respectively.

D. The thallium results for MFQ313, MFQ334 and MFQ337 (raw data pages 280, 290, and 293) are above the IDL. The FAA analytical spike recoveries should be 98.5%, 103.0%, and 103.5%, respectively.

E. The thallium results for MFQ314 and MFQ335 (raw data pages 280 and 292) are at the IDL. The FAA analytical spike recoveries should be 107.5% and 101.5%, respectively.

F. The thallium result for MFQ332 (raw data page 289) is above the IDL. The FAA analytical spike recovery should be 84.0%. A "W" flag is required.

G. The thallium result for MFQ340 (raw data page 295) is above the IDL. The FAA analytical spike recovery should be 104.5%. The "W" flag is not required.

H. The resubmission in response to CCS, included in this data package, contains a corrected lead result on the Form 1 for MFQ328. A custody seal was not present on this package.

11. Other QC

None

12. Overall Assessment

A. The data package is provisional for the following reasons:

1. Blank concentrations were above the instrument detection limits.

2. Differences between duplicate results exceeded quality control limits.

3. Matrix spike recoveries were outside of limits.

4. FAA analytical spike recoveries exceeded limits for 6 of 80 determinations.

B. All other technical requirements were met.

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM
FAX Record Log

Date of FAX: March 25, 1992

Laboratory Name: N.F.T., Inc.

Lab Contact: Ronald L. Keil

Region: 6

Regional Contact: Michael J. Fertitta (ESAT)

Initiated by: Region

In reference to data for the following sample numbers:

MFQ311, MFQ312, MFQ313, MFQ314, MFQ324, MFQ326, MFQ327, MFQ328, MFQ329, MFQ330, MFQ331, MFQ332, MFQ333, MFQ334, MFQ335, MFQ336, MFQ337, MFQ338, MFQ339, MFQ340

Summary of Questions/Issues:

A. The ICV and the ICB for the first arsenic run are mislabelled as a CCV and a CCB in the raw data (pages 149 and 150). Please correct and resubmit the raw data.

B. The arsenic results for MFQ312 and MFQ314 (raw data pages 155 and 175) are below the IDL. The FAA analytical spike recoveries should be 112.0% and 107.0%, respectively. Please correct and resubmit the Form 14.

C. The selenium results for MFQ334 and MFQ339 (raw data pages 262 and 266) are above the IDL. The FAA analytical spike recoveries should be 99.0% and 101.0%, respectively. Please correct and resubmit the Form 14.

D. The thallium results for MFQ313, MFQ334 and MFQ337 (raw data pages 280, 290, and 293) are above the IDL. The FAA analytical spike recoveries should be 98.5%, 103.0%, and 103.5%, respectively. Please correct and resubmit the Form 14.

E. The thallium results for MFQ314 and MFQ335 (raw data pages 280 and 292) are at the IDL. The FAA analytical spike recoveries should be 107.5% and 101.5%, respectively. Please correct and resubmit the Form 1 for MFQ314 and the Form 14 for both samples.

F. The thallium result for MFQ332 (raw data page 289) is above the IDL. The FAA analytical spike recovery should be 84.0%. A "W" flag is required. Please correct and resubmit the Forms 1 and 14.

G. The thallium result for MFQ340 (raw data page 295) is above the IDL. The FAA analytical spike recovery should be 104.5%. The "W" flag is not required. Please correct and resubmit the Forms 1 and 14.

H. The laboratory resubmission in response to CCS was received in a package with no custody seal. Please take care in the future to place a custody seal on all data submitted.

Summary of Resolutions:

Region expects lab to look into items and submit data within ten working days to US EPA, 10625 Fallstone Road, Houston, TX 77099

Michael J Fertitta
Signature

3/25/92
Date

Distribution: (1) Lab Copy, (2) Region Copy, (3) SMO Copy

ManTech Environmental Technology, Inc.
ESAT Region 6

c/o US EPA 10625 Fallstone Road, Houston, TX 77099 (713) 983-2243

FACSIMILE COVER SHEET

Please deliver the following pages to:

Name Ronald L. Keil

Firm N.F.T., Inc.

City Golden **State** CO

Telephone (303) 278-1888 **Ext.** _____

Fax Telephone No. (303) 278-1399 **Ext.** _____

Sender:

Name Michael J. Fertitta

Date March 25, 1992 **Time** _____

Total Number of pages including this Cover Sheet 3

If you do not receive all the pages or if any pages are unclear, please call: (713) 983-2243.

MESSAGES: _____

Fax Model No. Panafax UF-620 Fax No. (713) 983-2248

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 17700	SDG No. MFQ311	SDG Nos. To Follow	SAS No.	Date Rec 02/26/92

EPA Lab ID: NFT
Lab Location: Golden, CO
Region: 6 Audit No.: 17700MFQ311
Re_Submitted CSF? Yes ____ No X
Box No(s): 1
COMMENTS:

Furnace AA raw data originals (pages 235 to 244 and pages 284 to 308) are filed with CSF 17716, MBBE97.
Original mercury data (pages 317 and 318) is filed with CSF 17686, MEBV90.
An incorrect Airbill number is placed in Box 5 of Traffic Report #015623.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	X		
12. Dated?	X		
AIRBILLS/AIRBILL STICKER			
13. Present?	X		
14. Signed?	X		
15. Dated?	X		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?	X		
17. Present?	X		
OTHER DOCUMENTS			
18. Complete?	X		
19. Legible?	X		
20. Original?		X	
20a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Michael J. Fertitta — Mike Fertitta/Chemist — Date 03/23/92
Audited by: ____ — ____ — Date ____
Audited by: ____ — ____ — Date ____
Signature — Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: ____ Date Entered: ____ Date Reviewed: ____
Entered by: ____ ____
Reviewed by: ____ ____
Signature — Printed Name/Title

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 17700 SDG No. MFQ311 SDG Nos. To Follow SAS No. Date Rec 03/06/92

EPA Lab ID: NFT
Lab Location: Golden, CO
Region: 6 Audit No.: 17700MFQ311(2)
Re_Submitted CSF? Yes X No
Box No(s): 1
COMMENTS:
This resubmission in response to CCS, containing a corrected Form 1, was missing a custody seal.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?		X	
2. Intact upon receipt?			X
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?			X
7. Complete?			X
8. Accurate?			X
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?			X
10. Dated?			X
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?			X
12. Dated?			X
AIRBILLS/AIRBILL STICKER			
13. Present?			X
14. Signed?			X
15. Dated?			X
SAMPLE TAGS			
16. Does DC-1 list tags as being included?			X
17. Present?			X
OTHER DOCUMENTS			
18. Complete?	X		
19. Legible?	X		
20. Original?	X		
20a. If "NO", does the copy indicate where original documents are located?			X

Audited by: Michael J. Fertitta Mike Fertitta/Chemist Date 03/23/92
Audited by: Date
Audited by: Date
Signature Printed Name/Title

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: Date Entered: Date Reviewed:
Entered by:
Reviewed by:
Signature Printed Name/Title